ICN LoWPAN

draft-irtf-icnrg-icnlowpan-05
ICNRG Interim, Macau

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Recap Discussion: Name Compression for NDN and CCNx

Current State

| Type | Len | Type | Len | IETF | Type | Len | 105 | → | Len | IETF | 105 | Stop |
|------|-----|------|-----|------|------|-----|-----|---|-----|------|-----|-----|------|

Limitations

▶ All NameComponents must be of type `GenericNameComponent`

▶ Length of NameComponents is limited to $1 \leq x \leq 15$

Question: Should we include Types in the compressed representation?
Alternative Name Compressions

1. Encode frequently (?) used name component types
   - **CCNx**: T_NAMESEGMENT, T_IPID, T CHUNK, T VERSION
   - **NDN**: Generic, Timestamp, Version, SequenceNumber
   - List is not complete, new frequently used types may be defined in future

2. Dictionary-based compression populated statically/dynamically
Draft Update (04 ⇒ 05)

- Add *extension octets* to allow for extensibility of base dispatch octets
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Ready for RG last call?